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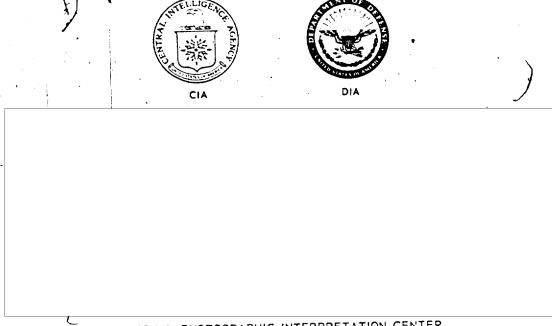
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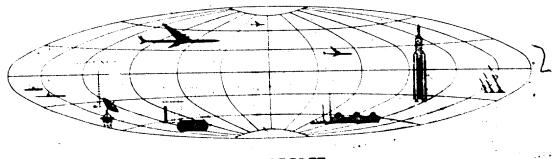


PHOTOGRAPHIC INTERPRETATION REPORT

LAUNCH COMPLEX C KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR AS OF APRIL 1964



NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



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	_	PREFACE		•
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		This report is the fourth in a series being prepared in response to requirements UGAC-64, and DIAXX 64-14, and presents a detailed photographic interperation of Launch Complex 6	nd .	25X ²
		the largest of the surface-to-surface missile (SSM) complexes at the Kapustin Yar/Vladimirovka Missile Test Center (KY/VMTC) (Figure 1)	he	
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		All line drawings have been derived from unrectified oblique photography; accordingly, areas may not appear rectangular, and north arrow	g- vs	. :
		*The other three reports are the first three items listed under Related Documents in the Reference Section.	n	
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SUMMARY

The launch areas of Complex C were the most active of all the launch areas at KY/VMTC, both in the amount of equipment present in April 1964, and in new facilities constructed since April 1962.

The associated support facilities showed

a correspondingly high level of activity, with continued construction of facilities underway; numerous vehicles present; and several units, engaged in exercises, scattered throughout the complex.

LAUNCH AREAS

Launch Complex C (Figure 2) comprises 5 launch areas, numbered from north to south. These 5 areas include 17 launch positions which in April 1964 included 2 new positions under construction at Launch Area 1C; 1 position probably being modified at Launch Area 4C; and 2 abandoned positions at Launch Area 5C.

LAUNCH AREA IC

A major addition is observed on

(April 1964), taking place at Launch Area

1C (Figure 3) and involves the construction of

2-new launch positions northeast of the older
rail-served launch pad. Construction was first
noted on March 1964), and consists
of trenches in a V pattern extending from the
old control bunker, with a large excavation at
the end of each trench.

The excavations are approximately 525 feet apart and an unidentified object and a small structure under construction are located between them. The northwest excavation contains a 50-by 20-foot control/terminal room, similar to that observed at the IRBM sites in Cuba, and 2 unidentified structures. An additional unidentified structure is located next to the excavation.

The southeast excavation contains a foundation for a control/terminal room and 2 uniden-

tified structures. An additional unidentified structure and 5 vehicles are located next to the excavation. A conduit has been laid for approximately 90 feet in the trench to the northwest excavation. Construction material is located along the western edge of this trench.

A line drawn between the 2 excavations would be on the same azimuth, approximately 135 degrees, as a line drawn between the 2 abandoned pads at Launch Site 5C2. The access roads across the pads at Launch Site 5C2 are on an azimuth of approximately 45 degrees, plus or minus 5 degrees. It appears that access to the positions at Launch Area 1C will also be on an approximate azimuth of 45 degrees, plus or minus 5 degrees.

The remaining facilities are unchanged except for a building under construction north of the access road to the launch area. These facilities include the old launch pad, a rail-served 60- by 10-foot launcher erector on this pad, 5 vehicle revetments, 3 buildings, 2 earth-mounded buildings, and a horseshoe-shaped revetment. Additional items within the area include 5 light poles situated around the old pad; a vehicle on this pad with unidentified pieces of equipment next to it; an unidentified object and construction scarring west of the pad; and 8 additional unidentified objects, and 6 vehicles

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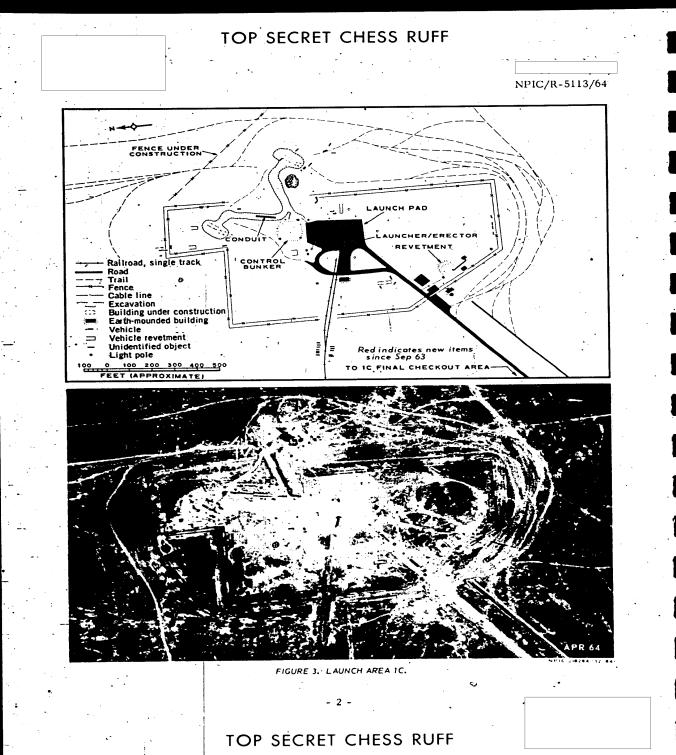
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positioned throughout the area. A new fence line,	however, a more detailed description of the fa-
which will enclose the new launch positions, ap-	cilities can be given because of the quality of
pears to be under construction northeast of the	photography of
launch pad.	The launch pad at Site 2C1 contains a ring
A. 140- by 50-foot extension to the old	90 feet in diameter, which is probably the outer
launch pad, adjacent to the rail line serving the	limit of heat-resistant concrete. A probable
pad, had been added by April 1962	cable scar leads from the front of this pad
but the smaller-scale photography precluded its	northeast to an unidentified object within the
. dentification until April 1964	fence line. A small building 30 by 25 feet and
An earth-mounded building with a round tank	an unidentified object are located south of the
next to it is located outside the fence at the	2C1 vehicle stalls. A low rectangular structure.
entrance to the site. There are 12 vehicles or	130 by 50 feet is located north of these vehicle
pieces of equipment along the rail line outside	stalls.
the fence line. Two vehicles are in motion on	The launch pad at Site 2C2 also contains a
the road between the launch area and the IC.	ring 90 feet in diameter probably marking the
final checkout area, 1 heading toward and 1	outer limit of special heat-resistant concrete.
away from the launch area.	A probable launch pedestal is in the center of
The final checkout area for Launch Area	the pad. A probable cable scar leads from the
	front of this pad southeast to an unidentified
1C shows no apparent change since	object within the fence line. A small building
(April 1962). The hexagonal-shaped con-	25 by 25 feet is located off the northwest edge
crete pad or apron immediately southwest of	
the checkout area contains a rectangular struc-	of the pad. A low, rectangular structure, 120 by
ture 140 by 20 feet. A rail line appears to lead	50 feet, is located north of the 2C2 vehicle stalls,
from each end of this structure to the ends of	and another rectangular structure 130 by 50
the arms which protrude from the hexagon. On	feet is south of these stalls.
(April 1962) no object was present	An earth-mounded control bunker, 90 by 85
on the hexagon but a 70- by 20-foot object was	feet, is located between the 2 launch pads. Two
"positioned on each of the arms. These objects	entrances are visible, 1 at the northwest corner
may slide on the rails and could be joined to-	and 1 at the southwest corner of the bunker.
gether, forming the rectangular structure that is	Two probable periscope-type objects and an un
now located on the hexagon. The hexagon is	identified object are located on top of the con-
served only by vehicular tracks or scarring,	trol bunker.
not by improved road. A vehicle is located	Six vehicles are in the area: a cargo truck
north of this hexagon.	and a small unidentified vehicle are parked im-
	mediately north of the control bunker; a cargo
LAUNCH AREA 2C	truck and an unidentified vehicle are leaving the
Thereselves and the second of	pad at Site 2C1; a possible cargo truck is parked
Launch Area 2C (Figure 4) is single fenced	on the pad; and a cargo truck is parked on a
and consists of two sites, 2Cl and 2C2, each	prepared earth surface outside the entrance to
having a launch pad, vehicle stalls, a control	the launch area.
bunker, and some on-site support buildings. The	
permanent facilities at this launch area remain	The on-site support buildings are located
unchanged since (April 1962);	to the rear of the launch pads at the entrance
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gate to the launch area. Table 1 shows these buildings as portrayed on Figure 4.

Table 1. On-Site Support Buildings, Launch Area 2C

Item No	Description	Dimensions (ft, approx)	
ì	Gable-roofed building	90 x 25	
	Flat-roofed building	70 ≤ 35	
3	Flat-roofed building	70 🔨 30	
1	Flat-roofed building	35×20	
5	Flat-roofed building	40×30	
6	T-shaped security building	90 🔨 40	
-	Flat-roofed building	25×15	
8	Rectangular structure	50 × 10	

LAUNCH AREA 3C

Launch Area 3C (Figure 5) has shown no change in facilities since photography of December 1959. In April 1964 ercise was underway on the launch pad utilizing an SS-4 missile on a transporter. The missile Also located on the pad is a missile erector, a launch stand, a 30--foot fuel trailer towed by a YAAZ-214 truck, two 30-foot oxidizer trailers towed by YAAZ-214 trucks, a cherry picker, an ATT-tracked prime mover, three medium 'vans including I towing an water trucks, one generator, 3 possible long possible decontamination truck, a possible oxidizer transfer van, a able H2O2truck, and at least 8 unidentified vehicles. More equipment is parked on the southwest hardstand. This hardstand is fence secured,

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More equipment is parked on the southwest hardstand. This hardstand is fence secured, and contains a canvas-covered missile transporter, approximately 70 feet long; 15 support vans measuring an open cargo truck; a possible cherry picker; and at least 15 unidentified vehicles or pieces of equipment. Positioned west of the launch pad are 3 erected

mock-up missiles, 2 of which are shown on Figure 5.

The 3C Final Checkout Area has shown no parent expansion since December 1959. L/Five unidentified-type vehicles were parked along the side of one of the buildings on April 1962 photography.

LAUNCH AREA 4C

Launch Area 4°C (Figure 6) is a double-fenced area, measuring approximately 4,200 by 1,500 feet, which includes 2 prototype hardened MRBM/IRBM launch sites, 4C1 and 4C2, and a service area. It is served by a hard-surfaced road entering from the west which joins a north/south road approximately 30 feet in width, also hard surfaced, which connects with both launch sites. The northern launch site is designated 4C1 and the southern site is 4C2. The 4C service area is located between the 2 cites

The initial construction for Launch Area 4C was noted on KEYHOLE photography of Subsequent cover-August 1960 age of June 1961 first observation of Launch Site 4C1 in a midstage of construction; however, Launch Site 4C2 was only visible through clouds and cloud shadow. Both sites were observed on later KEYHOLE photography of April 1962 By this time all of the facilities at both launch sites were nearly complete or complete and a direct correlation could be made between them and a number of deployed Type IV MRBM/ IRBM sites. An analysis of larger-scale KEY-HOLE coverage of April 1964 revealed no major changes in the permanent facilities at Launch Area 4C since April 1962. The following descriptions are taken from this later coverage which permits a more detailed interpretation of the facilities.

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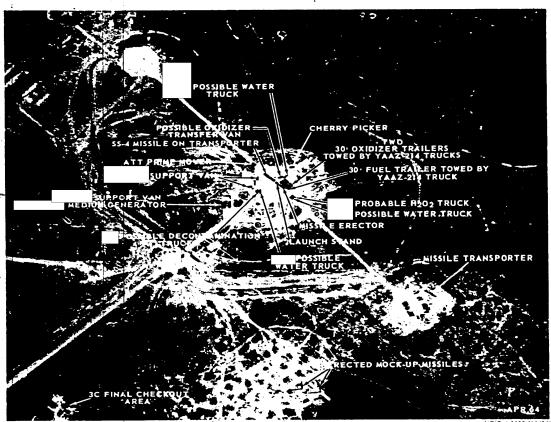


FIGURE 5. L'AUNCH AREA 3C.

Launch Site 4C1

Launch Site 4C1 (Figure 7), the MRBM prototype, contains 4 hardened launch silos served by a loop road which encircles a slightly-mounded control bunker. Each of the 4 silos has a rectangular concrete cover with a domeshaped top. On April 1964 coverage

the western forward silo cover is in the open position; the eastern forward silo cover

had been moved about 115 feet to the north and a tall structure surmounts the silo. This may indicate that the eastern silo, at that time, was being modified or repaired. Buildings in the immediate vicinity of the launch site include 3 buildings immediately north of the loop road and another about 300 feet southwest of the western rear silo. A conduit or earth scar leads north from the launch silos, connects or passes by each of 3 buildings, and terminates at a small

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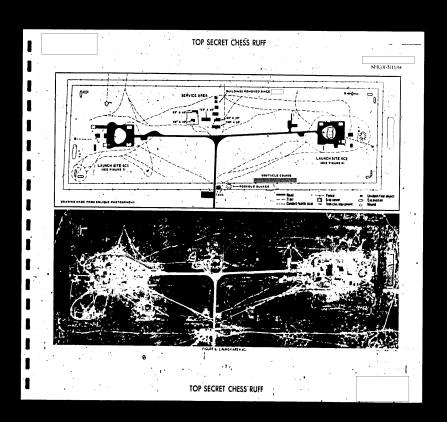
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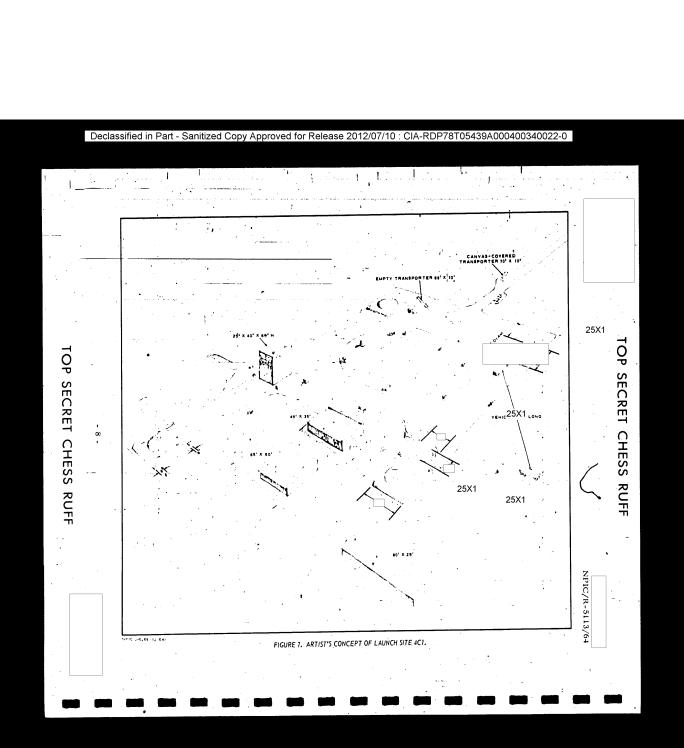
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structure approximately 450 feet north of the loop road. Directly west of this small structure is a large rectangular pond. Another conduit or earthen scar extends from a circular mound located about 250 feet east of the launch silos to a larger pond. The launch site appears to be quite active in April 1964. A canvas-covered missile transporter is parked in a widening of the access road just south of rear silos; empty missile transporter is near the eastern rear silo; and at least 16 trucks and vehicles are observed in the immediate site area.

Launch Site 4C2

Launch Site 4C2 (Figure 8), the IRBM. prototype, contains 3 hardened silos arranged with the same relationship to each other and to the loop road as are the components of Launch Site 4Cl. This site, however, differs from 4Cl in that it contains 3 instead of 4. silos. Also, the rear silo at 4C2 is positioned to the left and rear of the slightly-mounded control bunker whereas the rear silo at all other deployed hard IRBM launch sites is positioned to the right and rear of the mounded control bunker. Two buildings are situated just south of the southwestern silo. A possible conduit leads south from this silo for a distance of about 450 feet and connects with an unidentified structure. Midway along this possible conduit a branch conduit extends to the east and connects: with a large circular bunker. A rectangular pond is located just south of and outside the double fence securing the launch site. Two parking. aprons, one on each side of the access road, are on the north side of the launch site. A building is adjacent to the eastern apron and 3 trucks are parked on the western one. Additional activity on the site road network inseen on cludes 1 probable missile transporter, 2 empty missile transporters, 5 probable tractor trailers, and 15 trucks or vehicles. Four other vehicles are parked in a nearby area.

'4C Service Area

The 4C Service Area is located at the junction of the access road to the launch area and the north/south road. In April 1964 it contains 5 buildings 2 of which are within a fenced area. Four other buildings which were apparent on April 1962 photography have since been removed. Four vehicles are observed within the service area

A guard house with a tank along its southern side, a building, and a possible small bunker are located near the entrance to Launch Area 4C. A parking apron, outside the fence and along the north side of the access road, contains 3 trucks and 3 other vehicles.

4C Support Area

A major portion of the 4C Support Area (Figure 9); located 0.5 nautical miles (nm) northwest of Launch Area 4C, appears dismantled on (April 1964). Previous coverage of April 1962 revealed 27 buildings or structures in the main portion of the support area, a fenced electrical substation and adjacent tent area immediately south of the building area, and a building and 3 rows of 12 unidentified objects to the southwest. These 12 unidentified objects appear on as linear mounds, and have no associated road network.

support area subsequent to April 1962
indicates that the dismantling of the build-
ings began sometime after April 1963 (
Of the 27 buildings or structures dis-
cernible in the building area on
only 16 remain, and 2 of these were partially
dismantled

An analysis of the photography covering the

No changes are noted in the electrical substation which consists of a building and an adjacent transformer yard. The adjacent tent area has been evacuated.

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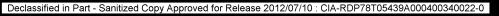
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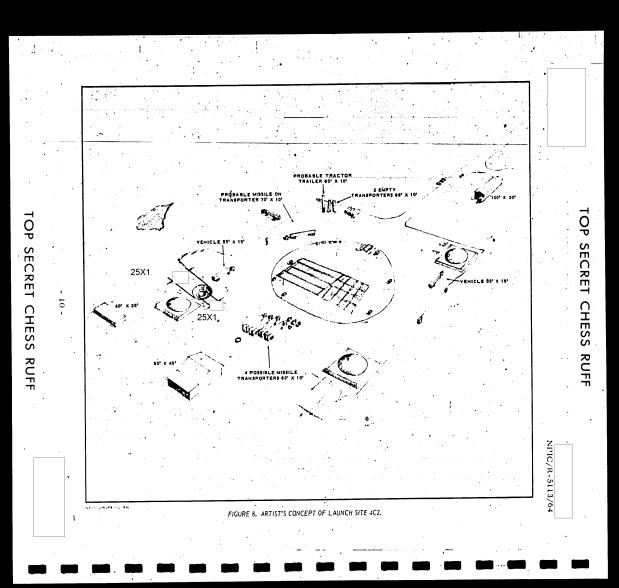
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NPIC/R-5113/64 LAUNCH AREA 5C launchers (TEL) on the northern pad. These probable missiles have a total length of Launch Area 5C (Figure 10) consists of 2 which would also include the blast soft launch sites. The northern site, 5C1, is deflector at the rear if the missile is on a complete; the southern site, 5C2, was apparently SCUD-type launch chassis. The probable TELs abandoned in a late stage of construction. wide, the width of the SCUD TEL. Launch Site 5C1 was not present on pho-Associated with these 2 missiles are 2 postography of August 1960, and was first obsible tank trucks 40 feet long. 25X1 served under construction on photography of A missile 70 feet long and June 1961. It was still under construction on wide, partially canvas covered and on a trans-25X1 and aggraently porter, is at the southern pad. Also on this pad was complete by September 1963 25X1 at which time perimeter security is a possible erector 50 feet long. On a hardstand just east of the southern pad are 2 vans, appeared to be established. 10 feet. An open-framework possible Launch Site 5C2 was also first observed in June 1961, but no construction activity appears missile transporter, 70 feet long, is parked on another hardstand to the east, toto have taken place since April 1962. This gether with a cherry picker, site -has never had perimeter security completely installed, and structures which were partially completed in April 1962 have shown A possible tank trailer towed by a prime no construction activity since then. mover, and having a total length of approxi-Launch Site 5C1 has 2 elongated pads mately 60 feet, is located in the western part measuring approximately 355 by 65 feet, with of the road system of the site. A possible Aa central rectangular area approximately 70

Table 2. Structures and Bunkers, Launch Area 50

keyed to Figure 10.

Item No	Description	Dimensions* (ft, approx)	Remarks	Item No	Description	Dimensions* (ft, approx)	Remarks
1	Bunker	135 × 60	Three entrances,	10	Bunker	85 x 35°	Entrance at each end
	• • •		north side	11	Bunker	45 × 35	•
2	Bunker	120×65	Entrance at each	12	Bunker	80×30	Entrance at each end
			end ,	13	Bunker	40×25	•
3	Bunker	120 x 50	Entrance at each end: 20 x 50	14	Unidentified structure	30 × 25 ×	
			taised section	15	Bunker	30×25	
4	Flat-roofed building	30 k 25	Possible instrumen- tation on roof	16	Flat-roofed building	45 x 45	
5	Drive-in bunker	35×30		17	Typical security	60×50	
6	Bunker	40 € 25		11	building		
7	Unidentified Structure	35 × 20		٦٠ .	Gable-roofed building	100 x 30	
6 .	Bunker '	45 × 35	Extended entrance 15 x 10	19	Flat-roofed building	45 € 30	
9	Drive-in bunker	35×30		. 20	Thermal-plant	50×45 .	Adjacent stack

^{*}All bunker measurements are taken at the top of the bunkers.

by 65 feet. At least 15 vehicles or pieces of

equipment were present at Launch Site 5C1

type missiles on probable transporter, erector,

including 2 probable SCUD-

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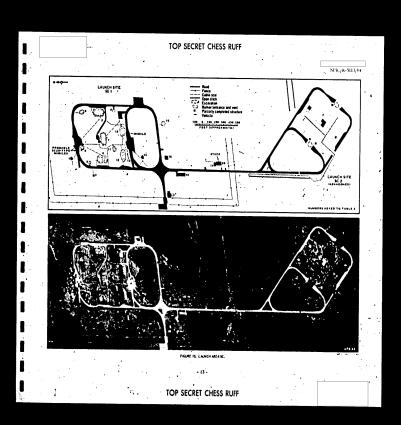
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frame crane with a total length of approximately

60 feet is in the northeastern corner of the site.

Table 2 gives a list of structures and bunkers -

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OPERATIONAL SUPPORT FACILITIES

FINAL ASSEMBLY AND CHECKOUT AREA

Launch Complex C Final Assembly and Checkout Area (Figures 11 and 12), located 2.7 nm west of Launch Area 2C, and across the road from the Warh ad Handling and Checkout Areas East and West, has had no changes in major components and to new major construction since April 1962 _______ The area, which is wall-secured, measures 1,440 by 475 feet and is road and rail served. There are 14 buildings within the area, most of which are situated around a large concrete apron.

Four rail lines enter the area, 2 enter and go through the largest building, 1 serves a conveyor line to the heat plant, and 1 bypasses the apron and buildings and continues on to Launch Area 1C. Another rail siding on this line to Launch Area 1C bypasses the area to the north. The largest building (Item 1, Figure 12), the assembly and checkout building, is a rail-through building with 2 rail lines continuing across the apron to the probable assembly and

checkout building (Item 2). Two other tracks also connect these 2 buildings.

The area also contains a coal-fired heat plant (Item 8) which is served by a conveyor line from one of the rail spurs, and an administration/security building (Item 7) at the western road entrance to the area. In addition there are 9 smaller buildings along the southern edge of the apron between the 2 road entrances, and 4 small rectangular hardstands (Item 9) are located near the northern wall. Activity was noted in April 1964 of equipment and rail cars positioned throughout the area. A possible crane, which may be on tracks, is located adjacent to the northwest corner of the large assembly and checkout building. Two, and possibly 3, flat cars containing 2 crates or canisters, each, measuring 10 feet, are on the tracks west of this building. Another string of flat cars with 3 crates or canisters on them is on the track which bypasses the apron. One of the crates measures 10 feet and the other 2 measure

Table 3. Facilities, Final Assembly and Checkout Area

	Item '		Description	×	١
· ·	1.	clerestory section, approximate approximately 25 feet high.	and checkout building, 200 by 130 f dy 55 feet high, flanked by two 200-	by 30-foot shed-roofed shops	֥
_	2	Rail- and road-entered probable a with shed-roofed structure, 30 k	assembly and checkout building, 180 by 15 feet, on south side,	by 70 feet, probably gable re	oofed,
χ1 ·	3	Single-story, gable-roofed building	ng, 30 feet, with probable vehi south side of building measure appro	icle entrance on north side, ximately 35 by 10 feet, 25 by	
	4	Single-story probable drive-in bu	ilding, 50 by 25 feet.		
	5	Single-story, flat-roofed probable personnel entrance.	· administration or laboratory building	ng, 75 by 40 feet; served only	by.
i	6	Single-story, flat-roofed building	, 33 by 20 feet; served only by person	onnel entrance,	
	. 7	Gable-roofed, L-shaped administ	ration or security building,	20- by 20-foot entrance	
	5	Probable gable-roofed heat plant	, 90 by 35 feet, with adjacent stack	on south side; connected by	
		conveyor to terminus of a rail s	spur.		
	9		each contains dark circle 10 feet in	diameter.	
	10 11	Four unidentified structures, each Low structure,feet square; p	ch 10 feet square. ersonnel walkway connects to apron		•

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TOP SECRET CHESS RUFF NPIC/R-5113/64 the main area and an addition to the wall erected 30 by 10 feet each. Two unidentified objects, to the east. Photography of September 1963 each measuring 20 by 10 feet, are located on disclosed a continuation of the the same track northeast of the probable aswall construction to the south and west, which sembly and checkout building. A possible miswas completed by April 1964. sile nose, approximately wide, on another The rail spur adjoins a paved off-loading rail car, protrudes approximately from apron and contains 13 rail cars, including 6 the probable assembly and checkout building approximately 85 feet long, and 7 approximately (Item 2). 45 to 50 feet long. At least 18 vehicles, includ-Parked on the apron southwest of this building 4 probable nosecone vans measuring ing are. 3 transporters; 1 measures approximately 65 feet in length and the other 2 each feet, are located in the parking area adjacent to the Hi-Hat building (item 20), 2/ and 1mėasure approximately in length. Two vehicle is located on the drive-through portion. smaller vehicles are parked nearby. Eight Several other vehicles are noted in the area. vehicles are in a parking area across the road Table 4, keyed to Figure 12, describes the from the western road entrance. One measures facilities in the Warhead Handling and Checkout approximately 35 by 10 feet, 3 measure approxi-Area West. mately 25 by 10 feet and the remaining 4 are WARHEAD HANDLING smaller. Table 3, keyed to Figure 12, gives a AND CHECKOUT AREA EAST description of facilities within the Launch The Launch Complex C Warhead Handling Complex C Final Assembly and Checkout and Checkout Area East (Figure 13) has shown Area. expansion since 1959. By April 1962 the fence line had been extended north WARHEAD HANDLING and south, and enclosed an area approximately AND CHECKOUT AREA WEST 1,000 by 455 feet. A high-bay building (Item 2, The Warhead Handling and Checkout Area Figure 12), similar to those observed at regional West (Figures 11 and 12) is located approxistorage sites in the USSR, and 4 other buildmately 3.0 nm behind Launch Area 2C. This ings had been constructed in the area. Photogshowed the area has been enlarged considerably since raphy of June 1962 high-bay building to be heavily rejetted on 2 coverage of December 1959, although the old area apparently remains separately secured. sides. (April, 1962) dis-PROBABLE MISSILE ASSEMBLY closed a large drive-through building (Item 17, . AND CHECKOUT AREA Figure 12), 150 by 85 feet including extended The Probable Missile Assembly and Checkentrances 30 by 20 feet, which was under conout Area (Figure 14) is road and rail served. It struction approximately 650 feet east of the is located approximately 4.5 nm west of the main area. This building, and the building Launch Complex A Support Area and approxidescribed as "Building Under Construction" mately 2.5 nm northwest of the Launch Complex (Item 15) in NPIC/R-1183/64, 1/ appear to be C Unidentified Installation. This area shows (April 1964). completed on very little change since April 1962 (August 1962). KEYLIOLE showed a rail spur constructed to the south of

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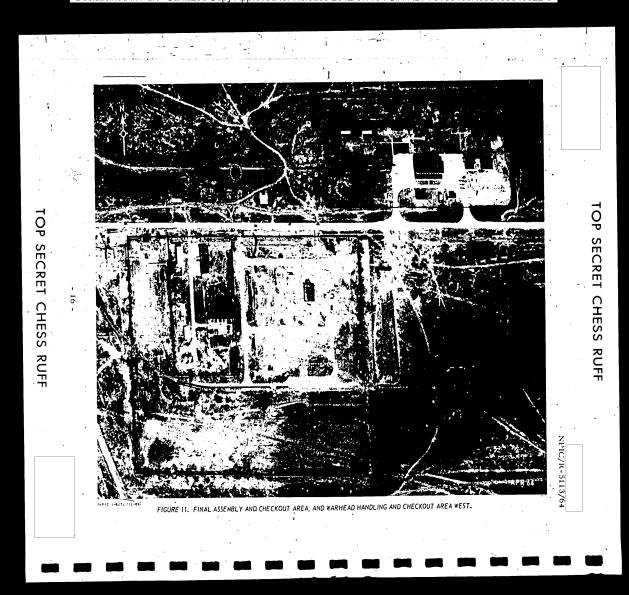
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Table 4. Buildings, Wathead Handling and Checkout Area West

tem No	Description	Height '	Dimensions (ft. approx)	Remarks
12	Flat-roofed building	1-story	40 € 35	Structure has 20- by 10-foot extended entrance
1/3	Flat-roofed building	1-story	20×20	
Ų4	Gable-roofed personnel building	1-story	140×50	Small'gable over entrance
1.5	Flat-roofed vehicle shed	•	165×65	•
16	Flat-roofed security building	1-story	25 ₹ 20 +	
1,7.	High-bay building		150 x 55	High bay section 110 x 45; 2 shops
al at least				110 x 20 each; 2 extended entrance- each 20 x 35
1,5	Flat-roofed building	1-story :	20×15	
-13	Flat-roofed building	low	15×15	
3(0	Drive-through Hi-Hat building		135×50	-
41	Flat-roofed building	•	20 × 20	
22	Drive-in bunker		45 diameter	
- 1			(at top)	
2[3	Flat-roofed storage shed		70 × 25	
2(4 €	Flat-roofed building		30×30	
25	Flat-roofed building		25 × 25	•

The double-secured area contains 5 drivethrough buildings, 3 of which are also probably rail entered; 4 drive-in buildings, 1 with a stepdown roof; 9 administrative-type buildings; 1 large shed; and several small miscellaneous' buildings. Vehicle tracks, 2 large excavations, and a possible building under construction are noted immediately to the west of the area.

UNIDENTIFIED FACILITY

An unidentified facility (Figure 15) is located approximately 3.0 nm northwest of the Final Assembly and Checkout Area at Launch Complex C, and approximately 2.0 nm south-southeast of the Probable Missile Assembly and Checkout Area

This installation was first observed under
construction in June 1962 at
which time scarring for the access road and the
rail spur was evident. No evidence of any con-
struction activity was present in April 1962
Continuing construction was ob-
served in July 1962
August 1962 and September
1962

The next interpretable photography was in September 1963 when 4 buildings could be observed. Double security fencing was evident and the area was rail served; The installation was again covered in March and April 1964 with no apparent change between the 2 missions.

The facility is double-fenced with guard towers in all corners and midway on each side except the southwestern side where a probable security building is located. Three small structures are on the northwestern side of the facility where the rail line enters; 2 inside the fence line, and 1 outside. These structures probably have a security as well as a traffic-control function. Another fence line is apparently being constructed within the facility, and presently extends from the southeastern fence line, paralleling the rail line, for approximately 1,450 feet.

This facility is rather unique to KY/VMTC in its heavy security, the arrangement of structures, and the rail and road pattern. From the rail and road arrangement, it appears that this facility could serve as a receiving/transfer facility for rail-shipped, missile-related items.

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25X1

FIGURE 13. WARHEAD HANDLING AND CHECKOUT AREA EAST.

(ft, approx)

105 x 45 25 x 20

30 diameter

. 20 x 20

30 x 30

70 x 30

15 x 10

40 x 30

30 x 15

80 x 40

10 x 10

35 x 35

15 x 10

DESCRIPTION

Probable drive-through high-bay building

Flat-roofed building

Unidentified structure

Security building

Bunker

Flat-roofed building

Flat-roofed building

Flat-roofed building

Flat-roofed building Unidentified structure

Low flat-roofed building

Thermal plant

Low flat-roofed building

Drive-through hi-hat building

ITEM NO

. 1

12

13

14

15

- 19 -

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TOP SECRET CHESS RUFF Nr 10/10-3113/04 A rail-unloading facility is near the eastern Table 5, keyed to Figure 15, describes the corner of the facility, and 2 branches of the rail buildings in the unidentified facility. spur terminate at an apron to the rear of the **ELECTRONIC FACILITIES** largest building (Item 3, Figure 15). Both of these portions of the facility are characterized The Rangehead Interferometer Site, the by loop-road patterns characteristic of trans-Launch Complex C instrumentation sites, and loading facilities. the electronic facility located approximately Activity was evident in April 1964, with an 1.5 nm north-northwest of Launch Area IC and open gondola car on the track behind the largest commonly associated with Launch Complex C, building, and several vehicles, including 1 apare not covered in this report since they were proximately 40 feet long, on the apron in front described in NPIC/R-810/64, $\frac{4}{4}$ / which was of the building. also derived ADMINISTRATIVE SUPPORT AND TRAINING FACILITIES ADMINISTRATION, HOUSING, AND objects which measured 60 by 10 feet. SERVICE AREA SOUTH Numerous small construction-support struc-The Launch Complex C Administration, tures are scattered throughout the area; Housing, and Service Area South (Figures 16 ADMINISTRATION, HOUSING, AND and 17) is located approximately 4.0 nm west SERVICE AREA NORTH of Launch Area 2C, just west of the road junction. leading to the launch areas for Complex C. The Administration, Housing, and Service This area has shown continued expansion; Area North (Figures 18 and 19) is located along since April 1962 59 new structhe main road to Kapustin Yar, approximately tures, including 7 under construction, have been 1.0 nm northwest of the junction of that road added to the previously existing area. and the main access road to Launch Complex In the northwestern portion of the area a C. In December 1959 this area consisted of large permanent motor pool, with vehicle main-13 buildings. 1/ tenance and storage facilities, a rail-served In April 1962 20 large build-POL storage facility, and a probable heat/ ings, 4-unidentified cylindrical structures, 2 power plant have been added since April 1962 bunkers, and several additional small buildings. Ninety-nine vehicles were in all newly constructed, were observed. Five this general area at the time of other new buildings were grouped a short The older portion of the area has also shown distance to the south. April 1964) expansion with the construction of new buildings, reveals 10 additional buildings constructed in

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TOP SECRET CHESS RUFF

the main area. Four of the 5 buildings located

ing/administrative buildings, numerous main-

tenance support buildings, 2 vehicle pool areas,

and an athletic area. Numerous small unidenti-

The facilities of the area include 20 hous-

to the south have been removed.

fied vehicles are noted in the area.

a new water standpipe under construction, and a

new large sewage-treatment facility to the west;

one with 12 cars, were in motion, and a parked

train contained a string of 11 flat cars. Two

of these flat cars contained canister-like

Rail activity was also noted in the vicinity

Two trains, one with 8 and

NPIC/R-5113/6	1

Table 5. Buildings, Unidentified Facility

Item No	- Description	Height	Dimensions (ft, approx)	'Remarks
4	Flat-roofed building	1-story	45 × 25	
2 .	Flat-roofed probable security building	1-story	70. < 40	
3	Building with slightly-gabled roof	multistory	155×70	2 road entrances on southwest end
4,	Flat-roofed building	1-story	30×25	
5	Flat-roofed building	Low	50×40	
6	Flat-roofed building	Low	55×30	
7	2: flat-roofed buildings	Low	25×20	
5.	Unidentified structure	Low	25×10	
9	Gable-roofed personnel building	2-story	180 × 60	Concrete apron near northwestern side
10	Flat-roofed building	1-story	30 € 20	
11,	Flat-roofed, T-shaped heat plant	2-story *	85×45	Two 1-story wings 35 x 20 each; adjacent stack on eastern side
12	Flat-roofed building	1+story	30 ₹ 20 *	Circular structure, approximately

" SSM BIVOUAC AREA

The SSM Bivouac Area (Figures 20 and 21), the training area associated with Launch Complex C, and located approximately 3 nm northwest of the Administration, Housing, and Service Area South, has grown from 7 training areas and a tent camp in 1959 to a large training center in 1964. A housing and administration section, containing at least 21 buildings, had been added by April 1962

By April 1964 this SSM Bivouac Area had grown larger with the addition, since April 1962, of 31 new buildings, a permanent motor pool, and a water supply facility. At least 94 vehicles were present in the area in April 1964, and at least 3 training exercises were underway.

One exercise (Item A, Figure 20), approximately 2,000 feet west of the motor pool, includes a typical 100-foot missile checkout tent and 9 vehicles, including 2 approximately 55 feet long. Another exercise (Item B) approximately 1,100 feet west of the motor pool, involves a probable missile long on a

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transporter situated on a training pad. Nine support vehicles are clustered nearby.

The third exercise (Item C) is taking place adjacent to a vehicle park, approximately 3,000 feet west-southwest of the motor pool. This vehicle park contains at least 30 vehicles including 3 trucks towing 30-foot-long oxidizers fuel trailers. Other trucks in this area also have trailers and vans attached. An unidentified-type vehicle or piece of equipment, approximately 40 feet long, is parked on an adjacent training pad.

Two vehicle parks are located south of the old tent camp. One contains 6 trucks, including 1 with a small trailer; the other has 12 vehicles and 4 pyramidal personnel tents. Eleven squadtype tents are in the old tent camp area. An obstacle course and running track are located in the southwestern portion of the SSM Bivouac Area, and construction-support materials are stored northwest of the motor pool.

Table 6, which is keyed to Figure 21, describes the facilities within the SSM Bivouac Area

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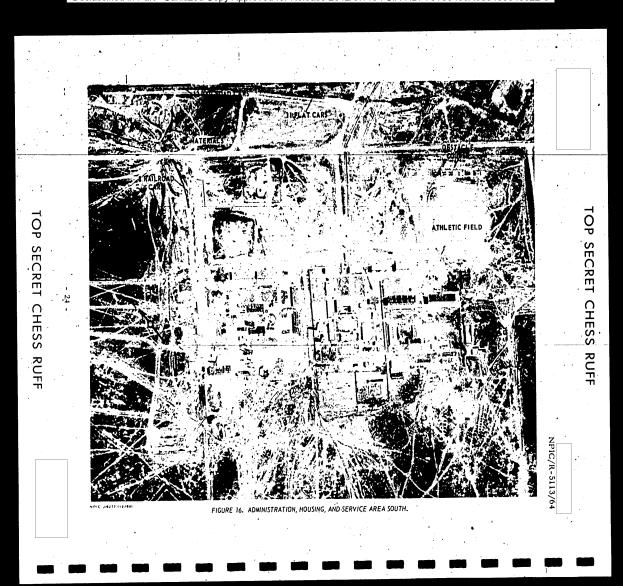
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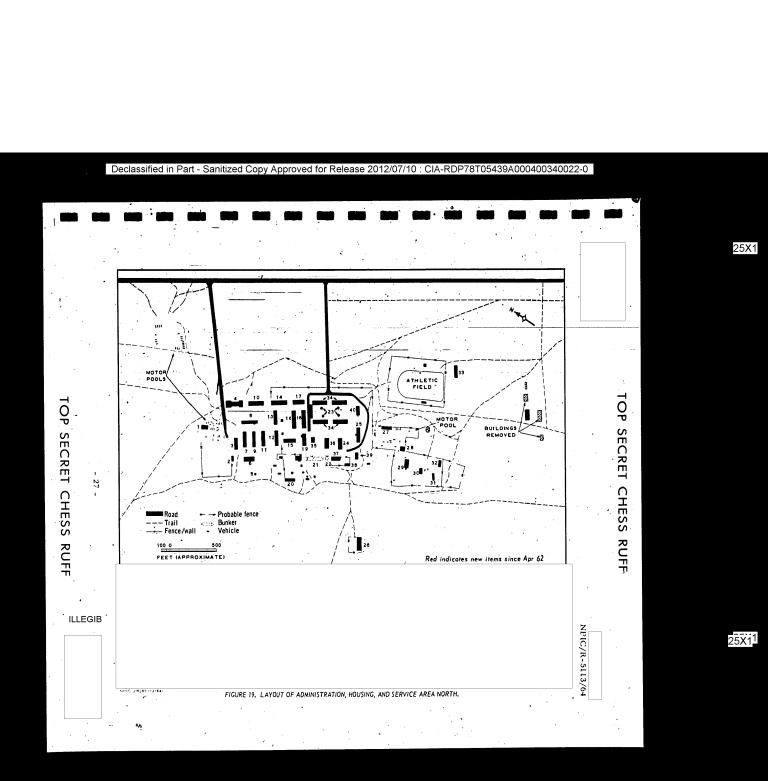
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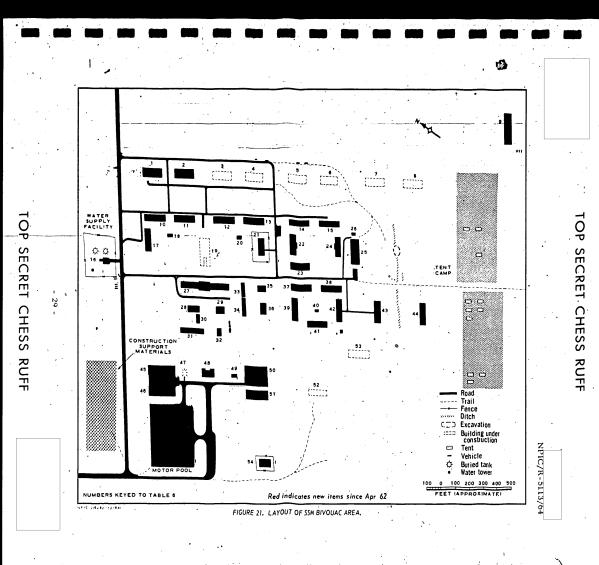
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FIGURE 20. SSM BIVOUAC AREA.

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Table 6. Facilities, SSM Biconac Area

Item No	Description	Height	Dimensions	Remarks
	Descripcion	1 ` 1	(ft, approx)	Remarks
1	Hip-roofed quarters building	2-story	130 € 60.	
2	Hip-roofed quarters building	5-2-story	130×60	•
3-5	6 barracks buildings under construction	2-story	125×60	
9	Gable-roofed building	1-Story	185×50	
10	Gable-roofed barracks building	1-story	140×45	•
11	Gable-roofed barracks building	1-story	140 < 45	
12	Gable-roofed barracks building	1-story	140 x 45	•
13	Gable-roofed barracks building	bistory	140×45	• • •
14	Gable-roofed barracks building	1-story	140×45	•
15	Gable-roofed barracks building .	1-story	$140 \times 45^{\circ}$	•
16	Flat-roofed pump house in fenced area	1-story,	25 ₹ 20	Area also contains 2 buried tanks and I water tower
17	Gable-roofed barracks building	1-story	140×45	•
15	Gable-roofed support building	1-story	$135. \times 20$	* .
19	Building under construction		155×65	
20.	Gable-roofed support building	1-story	35×20	•
21	Gable-roofed building	1-story	110×45	Building is fence secured
22	Hip-roofed probable quarters building	1-story	125 x-40	• •
23	Gable-roofed barracks building	1tory	140×45^{-1}	
- 24.	Hip-roofed probable quarters building	1-story	$125 \times 40^{\circ}$	
25	Gable-roofed administration quarters building	1-story	+ 155 √60	
26	Gable-rooted building	1-story	35×20	
27	Probable messhall		340 long	Higher center section 70 x 60; 2 partially buried wings each 135 x 35
26	Gable-roofed building		.95 ★ 40	Gables at ground level; building has vents
29.	Gable-roofed building		55×45	Building is possibly partially buried
30	Flat-roofed building		60 x 20	
31	Gable-roofed, partially-buried building		$160 \times 35^{\circ}$	Edge of roof at ground level
32	Gable-roofed building	1-story	30×60	•
33	Gable-roofed building	1-story	100×30	
34	Gable-roofed addition to Item 33	•	110 × 30	
35	Gable-roofed possible messhall	1-story	55×45	
36	Gable-roofed building	1-story	75 x 35 j	
37	Gable-roofed barracks building	1-story	140×45	
36	Gable-roofed barracks building	1-story	140 x 45	
39	Gable-roofed barracks building	1-story	140×45	•
40	Gable-roofed barracks building	1-story	30×20	
41	Gable-roofed barracks building	1 story	140 × 45	
42	Gable-roofed barracks building	1-story	140 × 45	
43	Gable-roofed barracks building	1-story	140 × 45	
f4 45	Gable-roofed barracks building Gable-roofed vehicle maintenance	1-story	140 × 45 190 × 60	
16	storage building Gable-roofed vehicle maintenance	. *	190 x 60	•
47	storage building Bunker		50 = 20	
45	Flat-roofed building	1-story	50 € 20	Center section 40 x 35; 2 wings each
z.7	Fractioned outlaing	1-Story		60 × 20.
49	Gable-roofed building	1tors	35 × 20	•
50	Gable-roofed probable vehicle main-	1-story	150×55	
~	tenance 'storage building			
51	Gable-roofed probable vehicle main- tenance storage building	1-story	150 x 55	
52	Building under construction	•	120 x 35	
53	Building under construction	•	140 x 50	*

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	GMAIC. UGMC-64 (partial answer)			*		
	DIA. XX64-14 (partial answer)					
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	11451/64 (partial answer)					
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